

## AMS Wireless <br> Vibration Monitor QUICK USER GUIDE

This document is intended to provide basic information about installation and configuration as well as information regarding safety and approvals. For more information, please reference the User Guide (P/N MHM-97927-PBF) on the Emerson website.

## Emerson

Reliability Solutions
835 Innovation Drive, Knoxville, TN 37932 USA

- +18656752400 ,
© +1 865-218-1401
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## Device Preparation

For safety reasons, the device is shipped with the battery disconnected. When you are ready to configure the device, follow the steps below to reconnect the battery.

1. Use your hands to unscrew and remove the blue cover.
2. Remove the battery with the pull tab.
3. Locate the battery connector and plug it into the socket on the device as shown.

4. Replace the battery. Tuck the wires against the battery and lock them into place.

## Quick Configuration

1. Locate the terminals for the communication port on the opposite side of the device.
2. Connect a configuration device to the terminals such as a computer running AMS Device Manager with a Trex Field Communicator (shown below).

3. Follow the onscreen instructions to configure the device. It is advisable to use the option for Guided Setup. Individual parameters can be easily customized ater using AMS Device Manager after the device has joined the wireless network.
4. After configuring the device, make sure to disconnect the battery before replacing the cover. This not only conserves battery power, but the battery will need to
be removed again when using the recommended field installation method.

## Safety Information

1. To stud mount the device (recommended), prepare the machine surface using a spot face tool Then drill and tap a $1 / 4-28^{\prime \prime}$ hole 0.25 " ( 6.35 mm ) deep. Alternately, a mounting pad with $1 / 4-28^{\prime \prime}$ thread can be glued in place using epoxy. (Consult the User Guide for additional mounting options and instructions.)
2. With the cover still on the device, use your hand to loosely screw the device into the threaded hole. Do not tighten.
3. Remove the cover and battery.
4. Insert a small screwdriver through the guide hole in th base of the unit (shown below) and use this to hold th device in the desired orientation

5. While maintaining the device orientation, use a $3 / 16^{\prime \prime}$ ball driver to tighten the captive screw in the center of the base (shown above) to $2-5 \mathrm{ft}-\mathrm{lb}$.
6. Then connect and replace the battery.
7. Use your hand to replace and tighten the cover.

## Shipping Considerations

Contact Emerson Product Support to obtain a Return Materials Authorization (RMA) number and receive additional instructions.

Primary lithium batteries are regulated in transportation by the U.S. Department of Transportation, and are also covered by IATA (International Air Transport Association), (European Ground Transportation of Dangerous Goads).

It is the responsibility of the shipper to ensure compliance with these or any other local requirements. Please consult current regulations and requirements before shipping.

## Product Certifications

The AMS Wireless Vibration Monitor has a number of certifications and approvals including CE, FCC, ISED, RED, CSA, and ATEX. For a complete list of product certifications, see http://www.emerson.com/AMSVibrationMonitor

For personal and system safety, and for optimum product performance, care should be given to read and understand the user documentation before installing, using, or maintaining this device. For more information, see the AMS Wireless Vibration Monitor User Guide.

For questions, contact customer support:
Inside US (Toll free): 1-800-999-9307
or 1-800-654-7768,
International: 1-(952) 906-8888,
E-mail: hm.custserv@emerson.com

## Battery Information

The AMS Wireless Vibration Monitor uses a standard battery For safety reasons, however, the unit was shipped to you with the battery disconnected. You will need to con before configuring and installing the device.

## Replacing the battery

The battery may be replaced in hazardous locations. Replace the battery only with Tadiran Part Number TL-4920/VE or Emerson Part Number A0702PPU. Follow the instructions in the User Guide for replacing the battery

## Installation Considerations

When choosing an installation location and position, consider the need for access to the device. For best overal performance, the device should be installed vertically. If it is necessary to install the device horizontally pay special attention to the network arrangement.

## Installation in Hazardous Area

The device is covered by a hazardous area rating. It is the responsibility of the user to verify that the device has the necessary approvals required for the intended area of use.

Warning: Installation in an explosive environment must be in accordance with the appropriate local, national, and international standards, codes, and practices. Please review this document for any restrictions associated with safe installation

Temperature Limits
As a safety precaution, the following limits must be observed for ambient temperature.

1. Storage Temperature : -40 to $185^{\circ} \mathrm{F} /-40$ to $85^{\circ} \mathrm{C}$
2. Operating Temperature: -40 to $185^{\circ} \mathrm{F} /-40$ to $85^{\circ} \mathrm{C}$

## General Notice

If the device has been exposed to a hazardous substance, a Safety Data Sheet (SDS) must be included with the returne exposed to specific hazardous substances.

## Wireless Certifications

## Telecommunications compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the RF spectrum. Nearly every country requires this type of product certification Emerson works with governmental agencies around the world to supply fully compliant products and remove th isk of sure directives or laws governing wireless device usage.

## Radio Equipment Directive (2014/53/EU)

Emerson complies with the Radio and Equipment Directive.

## FCC approvals

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harm interference to radio communications. However, there is
no guarantee that interference will not occur in a particular no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference
to a radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician Tor help.
his evice must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.


## CAUTION

Changes or modification not expressly approved by the party Changes or modification not expressly approved by the party operate the equipment.

## ISED approvals

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
perationis

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/ récepteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada Son fonctionnement est soumis aux deux conditions suivant

1. Cet appareil ne doit pas provoquer d'interfere,
2. Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîne un fonctionnement indésirable de l'appareil.

## Radio Approvals

| Country | Approval | Status |
| :---: | :---: | :---: |
| Brail | $\emptyset_{\text {anatel }}$ | 16244-20-13880 |
| Canad |  | 1: 3434A-99530M1 |
| Equatorial Cuinea | ortel | 608-2910712020 |
| Hong Kong |  |  |
| Jamica |  | This product contains a Type Approved Module by Jamaica: SMA - A9530XX |
| Mexico | NOM-NCS. | RCPAMA922-0109 |
| Philippines | 8 | $\begin{aligned} & \text { Type Accepted No: ESD-RCE-2023390 } \\ & \text { Type Aceppted No: ESD-RCE-2023391 } \end{aligned}$ |
| Serbia | $\underset{\Delta}{A}$ | P1620103200 |
| Singapore |  | Complies with MMAA Standard SA100927 |
| South Afica | $c$ | TA-2020/7576 |
| Thailand |  | This telecommunication equipment conforms to NTC technical requirements. |
| us | FC | NL5-A9530M1 Model: A9530V1, A9530V3 |

This product is approved for sale in many countries.
Please contact Emerson for a complete listing.


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Power options:
sattery must be replaced only with $T$,
or Emerson Part Number: A00702PPU

## NOTE: Approved batery may locations per this drawing.

$\frac{\text { CSA-C/US CSA20CA80026524 }}{\text { Class IDivision } 1 \text { Grouns ABC }}$




$40^{\circ} \mathrm{C} \leq \operatorname{Ta} \leq 85^{\circ} \mathrm{C}$
ECEX CSA $20.0022 x$

Exiallic T1350 Da
Ta: $-40^{\circ} \mathrm{C}$ o $085^{\circ} \mathrm{C}$
Warnings:

1. Care should
Care should be taken to protect this devicic from impact or
abrasion if located in a zone 0 environment.

hazard. Use Caution when replacing the battery
Avertissements:
2. Des précaution

chocs ou de labrasion sill est stitué dans un envirionnement de
zone 0 .
Late substiul
intrinseque.

electrostatique. Soyez prudent lors du remplacement de la
baterie.
batterie.

Conditions of SSafe Use:

1. Shat be powered only by $C$-sized ilitium primary cell type TL-4920NE
manuactured by Tadiran or Emerson Part Number A0002PPUU
2. HART Termina I ntitiy parameters:
Uo $=5.84 \mathrm{~V}, 10=116 \mathrm{~mA}$, Po $=169$


TREX field communicators.
3. Under certain extreme circumstances, the non-metallic parts incorporated in
the enclosure of this eauipment may generate an iell the enclosure of this equipment may yenerate an ignition-capapale leveve of
electrostatic discharge. Therefore, the equipment shal not be installed in a
 electrostatic charge on such surfaces. In addition, the equipment shall only be
cleaned with a damp cloth.
4. The device shall be installed on an earthed metal frame.
Conditions d'utilisation sûre
5. Ne doit ête alimenté que par une cellule primaire au lithium de taille $C$ de type
TL-4920 VVE fabriquee par Tadiran ou Emerson Part Number Aoro2pPU. 2. Paramères de lentité du terminal HART:
$\mathrm{UO}=5,84 \mathrm{~V}, \mathrm{lo}=116 \mathrm{~mA}, \mathrm{PO}=169 \mathrm{~mW}, \mathrm{Co}=0,1 \mathrm{\mu F}, \mathrm{LO}=5 \mathrm{mH}$
$\mathrm{Ui}=5,27 \mathrm{~V}, \mathrm{li}=5 \mathrm{~mA}, \mathrm{Pi}=6,6 \mathrm{~mW}, \mathrm{Ci}=13 \mathrm{\mu F}, \mathrm{Li}=0,022 \mathrm{mH}$
6. L'appareil ne peut etre configure è al aide des terminaux HART que par des
communicateurs de terrai 375 , 475 ou TREX.
7. Dans certaines circonstances extêemes, les pieces non métalicues
incorporees dans le boitier de cet equipement peuvent générer un niveau de
décharge electrostatioue capable dollumage. Par consequent,
 doit pas être instale dans un endroito it es conditions extemes conduisent à
laccumulation de charges électrostatioues sur de e teless surfaces. De plus,
8. L'appareil doit être installé sur un cadre métallique mis àla terre.

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|  |  |  |  | A9530 CSA, IECEX, ATEX Installation Instructions |  |  |  |
|  | $$ | Samen |  |  |  |  |  |  |  |
|  |  | Repm |  |  | D25902 |  |  |

## EU Declaration of Conformity









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EU Declaration of Conformity









